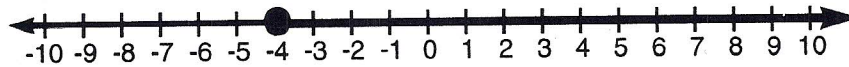


Name \_\_\_\_\_

Variables and Equations

**Solving Inequalities with Multiple Operations**

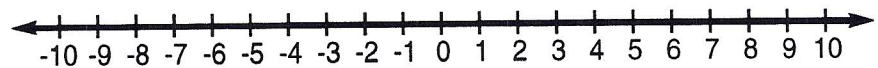
$$\begin{aligned}
 -11n + 4 &\leq 48 \\
 -11n + 4 - 4 &\leq 48 - 4 \\
 -11n &\leq 44 \\
 n &\geq -4
 \end{aligned}$$

**Solve each inequality and graph its solution set.**

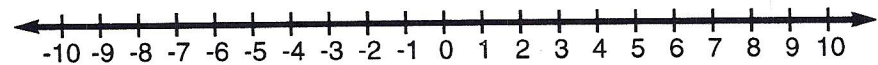
1.  $6x - 3 > 21$



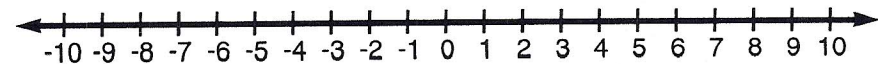
2.  $5 > 4x - 7$



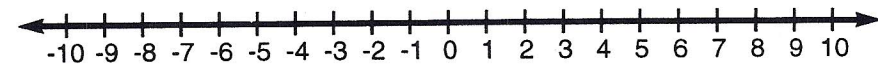
3.  $3(3c - 4) \geq 15$



4.  $-5x - 10 \geq -10$



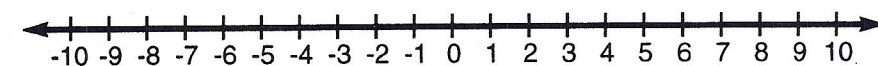
5.  $-15 > -3x - 45$



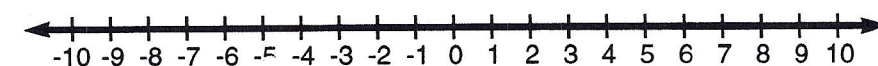
6.  $-6(3t + 2) \leq 6$



7.  $5x - 1 > 9$



8.  $4x - 7 < 9$



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

**KISS UNDERCOVER**

What is the approximate area of the foil wrapper covering a Hershey's Kiss?

Solve for  $x$ . Find your answers in the given list, and circle the corresponding letters. Read down columns of circled letters to reveal the three-word answer to the Kiss question.



**Tip:** Check your answer to see if the inequality equation holds true. For example, if you calculate  $x < 6$  for the equation  $-4 + x < 2$ , select a value less than 6 (e.g., 5) and substitute it for  $x$  in the equation:  $-4 + (5) < 2 \rightarrow 1 < 2$ , which is a true statement.

1.  $3x - 4 < 11$

9.  $9 - 8x < -55$

2.  $-5x + 2 \geq -3$

10.  $8x + 12 < 60$

3.  $4x + 10 < 50$

11.  $4 - 7x > -45$

4.  $-3x + 32 < 53$

12.  $6 - 5x \leq -39$

5.  $9x - 6 \geq 48$

13.  $-2x + 4 > 6$

6.  $10x - 92 < 18$

14.  $15 - 17x \leq -19$

7.  $-11 - 11x > 33$

15.  $80 - 2x < 40$

8.  $3x - 6 \geq 30$

16.  $4 + 30x \geq -146$

**Column One**

(R)  $x < -9$

(F)  $x < 5$

(W)  $x > -12$

(I)  $x \leq 1$

(V)  $x < 10$

(D)  $x > -11$

(T)  $x > 4$

(E)  $x > 20$

(H)  $x > 14$

(V)  $x > 40$

**Column Two**

(P)  $x > -13$

(S)  $x \geq -5$

(Q)  $x < 11$

(B)  $x > -19$

(U)  $x < -4$

(L)  $x > -3$

(A)  $x \geq 12$

(R)  $x > 8$

(G)  $x > -10$

(E)  $x < 6$

**Column Three**

(U)  $x < -4$

(I)  $x < 7$

(X)  $x > 42$

(N)  $x \geq 9$

(C)  $x < -1$

(M)  $x < -39$

(H)  $x \geq 2$

(E)  $x > -7$

(N)  $x > 35$

(S)  $x \geq 6$



Answer: \_\_\_\_\_